

**GCP-3 Hot Mix Asphalt Plants – Compliance Assessment Checklist** Date: \_\_\_\_\_

|   |          |                                     |  |
|---|----------|-------------------------------------|--|
| <b>Company:</b>   |          |                                     |  |
| <b>Facility address:</b>  |          |                                     |  |
| <b>Facility:</b>  |          | <b>Permit No.:</b>                  |  |
| <b>Is facility co-located with another facility?</b> Aggregate Facility _____ Concrete Batch Plant _____                      |          |                                     |  |
| <b>If co-located, are production limits met?</b> Yes ___ No ___ Aggregate Facility ≤ 7800 TPD Concrete Batch Plant ≤ 2400 YPD |          |                                     |  |
| <b>Facility Representative &amp; Title:</b>   |          | <b>Phone:</b>                       |  |
| <b>SBEAP staff:</b>   |          |                                     |  |
| <b>FACILITY REVIEW: Process equipment, emission sources, controls, and site setbacks</b>                                      |          |                                     |  |
| <b>Property Review</b>  |          | <b>Notes:</b>                       |  |
| <b>Y</b>  | <b>N</b> |                                     | Restricted area is properly enclosed as represented in the application   |
| <b>Y</b>  | <b>N</b> |                                     | Plot plan is accurate  |
| <b>Y</b>  | <b>N</b> |                                     | Process flow sheet is correct  |
| <b>Hot Mix Asphalt Plant</b>  |          | <b>Notes:</b>                       |  |
| <b>Y</b>  | <b>N</b> |                                     | Equipment matches latest registration or substitution/addition form (attached)   |
| <b>Y</b>  | <b>N</b> |                                     | Asphalt plant stack height is ≥ 10 meters (33 ft)  |
| <b>Y</b>  | <b>N</b> |                                     | Mineral filler silo stack height is ≥ 10 meters (33 ft)  |
| <b>Y</b>  | <b>N</b> |                                     | Mineral filler silos have audible & visual alarms  |
| <b>Y</b>  | <b>N</b> |                                     | Alarms activate before mineral filler silo is 95% full   |
| <b>Y</b>  | <b>N</b> |                                     | Mineral filler silos are equipped with a filter of ≥95% efficiency   |
| <b>Y</b>  | <b>N</b> |                                     | Maximum amount of mineral filler is 2.0%   |
| <b>Y</b>  | <b>N</b> |                                     | Particulates collected by control devices are removed or contained to prevent windblown dust                                     |
| <b>Y</b>  | <b>N</b> |                                     | Recycled filter fines are sent into the drum mixer via a closed loop system  |
| <b>Y</b>  | <b>N</b> |                                     | Fugitive dust control systems (e.g., water sprays, enclosures) are installed on processing equipment such as screens & conveyors |
| <b>Y</b>  | <b>N</b> |                                     | Engine exhaust is vented vertically  |
| <b>Y</b>  | <b>N</b> |                                     | Heater exhaust is vented vertically  |
| <b>Y</b>  | <b>N</b> |                                     | Restricted area 11-yard setback is met   |
| <b>Y</b>  | <b>N</b> | UTME: _____ UTMN: _____             |  |
| <b>Y</b>  | <b>N</b> | UTM matches application coordinates |  |

**Acronyms:**

- |   |  |   |
|---|--|---|
| <b>AQB</b> – Air Quality Bureau                 | <b>gr/dscf</b> – grains/dry standard cubic foot      | <b>PM10</b> – Particulate Matter ≤ 10 micron diameter |
| <b>CO</b> – Carbon Monoxide                     | <b>HP</b> – Horsepower                               | <b>TSP</b> – Total Suspended Particulates             |
| <b>EPA</b> – US Environmental Protection Agency | <b>mg/dscm</b> – milligrams/dry standard cubic meter | <b>TPD</b> – Tons Per Day                             |
| <b>GCP</b> – General Construction Permit        | <b>NOx</b> – Oxides of Nitrogen                      | <b>YPD</b> – Yards Per Day                            |

**DISCLAIMER: This checklist may not include all requirements of the General Construction Permit-3**

| FACILITY REVIEW: Emission sources, controls, and site setbacks (continued)                               |   |   |   |
|--|---|---|---|
| <b>Haul Roads</b>  |   | <b>Notes:</b> *Also refer to Table III.F.1 in GCP-3 for various limits on road length vs. number of truck trips/day |   |
| Y  | N |   | Length of haul road is ≤ 4 miles*   |
|  |   |   | The required fugitive emissions control is used (circle one):<br>→ Water<br>→ Water & base coarse<br>→ Surfactant   |
| Y  | N |   | → Pave & sweep  |
| Y  | N |   | → If water is used, a water truck is available on-site or by mobile service   |
| Y  | N | Restricted area 11-yard setback is met  |   |
| Setbacks for Area of Operations to Occupied Structure & Class I Area                                     |   |   |   |
|  |   | Area of Operations perimeter to occupied structure is ≤ 1/4 mile<br>UTME: _____ UTMN: _____                         |   |
| Y  | N | UTM matches application coordinates   |   |
|  |   | Class I Area perimeter is at least 3 miles from Area of Operations perimeter<br>UTME: _____ UTMN: _____             |   |
| Y  | N | UTM matches application coordinates   |   |
| Visible Emissions: Permit limit is no more than 5-minutes in any 2 consecutive hours using EPA Method 22 |   |   |   |
| Y  | N | Permit limits have been met for visible emissions that cross the restricted area                                    |   |
| <b>Notes:</b>  |   |   |   |
| RECORDS REVIEW: Permit and other documents   |   |   |   |
| <b>Copies of Documents Kept On-site</b>  |   | <b>Notes:</b>   |   |
| Y  | N |   | GCP-3 permit  |
| Y  | N |   | Registration application(s)   |
| Y  | N |   | Relocation application(s)   |
| Y  | N |   | Approval letter(s)  |
| Y  | N |   | Records of scheduled maintenance activities performed   |
| Y  | N |   | Copies of manufacturer's (or applicant's proposed) maintenance & operating requirements   |
| Y  | N |   | Fuel delivery records that include fuel type and number of gallons purchased  |
| Y  | N |   | If used oil is the fuel: Delivery records <u>also include</u> sulfur content (weight & percent) & certification that fuel specifications in 40 CFR 279.11 are met |
| Y  | N |   | Copies of compliance test documents   |
| Y  | N |   | Records are on-site or at a local office for at least 2-years after collection  |

| RECORDS REVIEW: Notifications and Compliance Tests     |   |   |  |
|--|---|---|--|
| Notifications to Air Quality Bureau                    |   |   |  |
| Y  | N | Initial start-up submitted within 15-days   |  |
| Y  | N | Have there been any equipment changes?  |  |
| Y  | N | Have there been any changes to production rates?  |  |
| Y  | N | Have there been any changes to operating hours?   |  |
| Y  | N | Have there been any changes to the length of the haul road?   |  |
| Y  | N | Have there been any changes to facility contacts?   |  |
| Y  | N | Have there been any changes in ownership?   |  |
| Y  | N | Has your small business status changed due to an increase in annual production rate and total engine capacity, or number of employees (>10)?  |  |
| Y  | N | Notified within 24 hours by phone or fax & written notification submitted within 10 days: When excess emissions from control equipment malfunctions or visible emissions limit exceeded when crossing restricted area perimeter |  |
| <b>Initial Compliance Tests – Engines ≥ 180 hp</b>     |   | <b>Notes:</b>   |  |
| Y  | N |   | Completed within 60 days of initial start-up   |
|  |   |   | Test methods used were:<br>→ NOx & CO - EPA Methods <u>or</u> portable analyzers authorized by AQB |
| Y  | N |   | → Opacity - EPA Method 9   |
| Y  | N |   | Test protocols submitted to AQB for approval at least 30-days before test date                     |
| Y  | N |   | Test results and protocols submitted to AQB no later than 45-days after test completed             |
| Y  | N |   | Test passed for NOx, CO, & opacity   |
| <b>Initial Compliance Tests – Heaters &gt; 5 MMBtu</b> |   | <b>Notes:</b>   |  |
| Y  | N |   | Completed within 60 days of initial start-up   |
|  |   |   | Test methods used were:<br>→ NOx & CO - EPA Methods <u>or</u> portable analyzers authorized by AQB |
| Y  | N |   | → Opacity - EPA Method 9   |
| Y  | N |   | Test protocols submitted to AQB for approval at least 30-days before test date                     |
| Y  | N |   | Test results and protocols submitted to AQB no later than 45-days after test completed             |
| Y  | N | Test passed for NOx, CO, & opacity  |  |
| <b>Initial Compliance Tests – Dryer Stack</b>          |   | <b>Notes:</b>   |  |
| Y  | N |   | Completed within 60 days of initial start-up   |
|  |   |   | Test methods used were:<br>→ NOx & CO - EPA Methods<br>→ TSP & PM10 combined - EPA Methods         |
| Y  | N |   | → Opacity - EPA Method 9   |
| Y  | N |   | Test protocols submitted to AQB for approval at least 30-days before test date                     |
| Y  | N |   | Test results and protocols submitted to AQB no later than 45-days after test completed             |
| Y  | N | Test passed for NOx, CO, TSP/PM10 & opacity   |  |

| RECORDS REVIEW: Compliance tests (continued) and Monitoring  |   |   |  |                    |   |                     |   |                     |   |
|--|---|---|--|--------------------|---|---------------------|---|---------------------|---|
| <b>Initial Compliance Tests – Mineral Filler Silo Filter</b> |   |   |  | <b>Notes:</b>      |   |                     |   |                     |   |
| Y  | N | Completed within 60 days of initial start-up  |  |                    |   |                     |   |                     |   |
| Y  | N | Test method used:<br>→ Visible emissions - EPA Method 22  |  |                    |   |                     |   |                     |   |
| Y  | N | Test protocols submitted to AQB for approval at least 30-days before test date  |  |                    |   |                     |   |                     |   |
| Y  | N | Test results and protocols submitted to AQB no later than 45-days after test completed  |  |                    |   |                     |   |                     |   |
| Y  | N | Test passed for visible emissions   |  |                    |   |                     |   |                     |   |
| <b>Initial Compliance Tests – Dryer Filter</b>               |   |   |  | <b>Notes:</b>      |   |                     |   |                     |   |
| Y  | N | Completed within 60 days of initial start-up  |  |                    |   |                     |   |                     |   |
| Y  | N | Test method used:<br>→ Visible emissions - EPA Method 22  |  |                    |   |                     |   |                     |   |
| Y  | N | Test protocols submitted to AQB for approval at least 30-days before test date  |  |                    |   |                     |   |                     |   |
| Y  | N | Test results and protocols submitted to AQB no later than 45-days after test completed  |  |                    |   |                     |   |                     |   |
| Y  | N | Test passed for visible emissions   |  |                    |   |                     |   |                     |   |
| <b>Monthly Monitoring Tests – Opacity (EPA Method 9)</b>     |   |   |  | <b>Hopper</b>      |   | <b>Screen</b>       |   | <b>Conveyor</b>     |   |
| Tests are completed at least once per month                  |   |   |  | Y                  | N | Y                   | N | Y                   | N |
| Test passed opacity limits (no visible emissions)            |   |   |  | Y                  | N | Y                   | N | Y                   | N |
| <b>Notes:</b>  |   |   |  |                    |   |                     |   |                     |   |
| <b>Emission Limits – Dust control systems with stacks</b>    |   |   |  | <b>Silo Filter</b> |   | <b>Dryer Filter</b> |   | <b>Wet Scrubber</b> |   |
| Y  | N | Particulate emissions do not exceed 90 mg/dscm (0.04 gr/dscf) using EPA Method 5  |  | Y                  | N | Y                   | N | Y                   | N |
| Y  | N | Particulate emissions do not exceed 20% opacity using EPA Method 9  |  | Y                  | N | Y                   | N | Y                   | N |
| Y  | N | Silo filter meets visible emissions limit of ≤ 5 minutes in any 2 consecutive hours using EPA Method 22                         |  |                    |   |                     |   |                     |   |
| Y  | N | Recycle operations for filter fines meets visible emissions limit of ≤ 5 minutes in any 2 consecutive hours using EPA Method 22 |  |                    |   |                     |   |                     |   |
| <b>Notes:</b>  |   |   |  |                    |   |                     |   |                     |   |

| Recordkeeping – Daily, monthly, or by activity |   |   |
|--|---|---|
| Y  | N | Daily hours of operation are recorded   |
| Y  | N | Daily operating hours match application   |
| Y  | N | Daily total production (tons) is recorded   |
| Y  | N | Daily production matches application  |
| Y  | N | Maximum hourly asphalt production rate is $\leq$ 600 tons   |
| Y  | N | Weekly total production (tons) is recorded  |
| Y  | N | Weekly rolling 12-month total production is calculated & recorded   |
| Y  | N | Weekly available HP of all existing engine units located on-site is recorded  |
| Y  | N | Maximum available HP of units on initial registration form at any time during past 52 weeks is recorded   |
| Y  | N | CO emissions from engines & asphalt production combined do not exceed 95 tons/year<br>Verify with the <a href="#">Carbon Monoxide Emission Calculation Tool</a>   |
| Y  | N | Number of haul truck trips per day is recorded (includes materials delivery & product)  |
| Y  | N | Haul road controls: Amount & frequency of water used is recorded (if applicable)  |
| Y  | N | Haul road controls: Amount & frequency of base course used is recorded (if applicable)  |
| Y  | N | Haul road controls: Amount & frequency of surfactant used is recorded (if applicable)   |
| Y  | N | Haul road controls: Frequency of sweeping paved roads is recorded (if applicable)   |
| Y  | N | Dryer filter: When operating, the differential pressure across the filters is continually measured using a differential pressure gauge & recorded by a CEMS or data logger  |
| Y  | N | Dryer filter: Manufacturer's recommended pressure drop of _____ inches is being met<br>If manufacturer's specifications are not available, then the pressure drop is within the operating range established by Method 22 for no visible emissions during initial compliance tests   |
| Y  | N | Mineral filler silo filter: During silo loading, the pressure drop across the filters is continually measured using a differential pressure gauge & recorded by a CEMS or data logger   |
| Y  | N | Mineral filler silo filter: Manufacturer's recommended pressure drop of _____ inches is being met<br>If manufacturer's specifications are not available, then the pressure drop is within the operating range established by Method 22 for no visible emissions during initial compliance tests   |
| Y  | N | Wet scrubber: The differential pressure across the scrubber, water inlet flow rate (gallons/minute) & water inlet pressure (pounds/square inch) is continuously monitored<br>Water flow, water pressure, & pressure drop is recorded twice/day (morning & afternoon)<br>The date & time of measurement & name of person making the measurement is also recorded |
| Y  | N | Wet scrubber: Manufacturer's recommended pressure drop of _____ inches is being met   |
| Y  | N | Monthly monitoring tests for opacity (EPA Method 9) for hopper, screen, & conveyor are recorded   |
| Notes:   |   |   |